



MW-620

Battery-Powered Asset Tracking Unit

The MW-620 is a battery-operated asset tracking product designed for reliable, multi-year deployments. The MW-620 is an ideal solution for managing assets over long periods without maintenance needs.

The MW-620 is a complete asset tracking and communications device incorporating next-generation, super-sensitive GPS technology on GSM/GPRS, CDMA 1xRTT and HSPA cellular networks for installation inside any mobile asset. The sealed MW-620 high-value tracking unit features a small size, superior GPS performance, and replaceable AA alkaline batteries. Superior internal antennas for both cellular and GPS eliminate the need for wired antennas and make the MW-620 mountable virtually anywhere for easy, inexpensive installations. Messages are transported across the cellular network using enhanced SMS or UDP messaging, providing a reliable communications link between the device and your application servers. The MW-620 is designed to reduce cost and size dramatically while significantly improving field reliability.



The MW-620 employs an industry leading on-board alert engine that monitors external conditions and supports customer-defined exception-based rules to meet the needs of your application. The engine continuously monitors the vehicle environment and responds instantly to pre-defined threshold conditions related to time, date, motion, location, geo-zone, input, and other event combinations. This behavior can be programmed before shipment, at a customer's facility, or over-the-air once the unit has been fielded.

The MW-620 also leverages an industry leading over-the-air device management and maintenance system. Configuration parameters, alert rules, and firmware can all be updated over the air. The MW-620 offers out-of-the-box hands-free configuration and automatic post-installation upgrades. You can also monitor unit health status across your fleet to identify issues quickly before they become expensive problems.

Features

- Battery life of 1 or 2 years at 1 message/day
- IP66 sealed and rugged enclosure
- Packet data (GPRS, CDMA 1xRTT, or HSPA) and SMS-based messaging
- Internal cellular and GPS antennas
- Super-sensitive GPS tracking
- Built-in 3-axis accelerometer for motion, tilt, and impact sensing
- Ultra-low power sleep mode
- Voltage monitoring and low battery notification
- 2,000 buffered messages
- 10 built-in geo-fences
- Exception-based rules
- Automatic, over-the-air unit configuration on power-up
- Over-the-air firmware download
- Web-based device management

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MW-620 Technical Specifications

GENERAL	Communication Modes	GPRS/EDGE/HSPA and CDMA 1xRTT packet data, UDP and SMS
GPS	Location Technology	50 channel GPS (with SBAS)
	Location Accuracy	SBAS: WAAS, EGNOS, MSAS, GAGAN
	Tracking Sensitivity	2.0 meter CEP (with SBAS)
	Acquisition Sensitivity	-162dBm
	AGPS Capable	-147dBm
BATTERY PACK	Replacement	Field-replaceable AA batteries
	Battery Options	3 or 6 1.5V AA alkaline cells
CELLULAR	Data Support	SMS, GPRS, CDMA 1xRTT or HSPA packet data
	Operating Bands	GSM/GPRS 850/900/1800/1900 CDMA/1XRTT 850/1800 HSPA/UMTS 800(VI)/850(V)/900(VIII)/1700(IV)/1900(II)/2100(I)
	Transmitter Power	GSM/GPRS 850/900/1800/1900 CDMA/1XRTT 850/1800 HSPA/UMTS (all bands)
	HSPA Data Rates	5.6 Mbps upload/7.2 Mbps download
	HSPA Fallback	EDGE/GPRS/GSM quad band EDGE MCS1-MCS9 3GPP Release 6
	CERTIFICATIONS	Fully Certified
PHYSICAL	Dimensions	2.9 x 4.9 x 1.4" / 74 x 124 x 36mm
	Weight	11 oz / 325 g
ELECTRICAL	Operating Voltage	4.2V internal battery
	Power Consumption	Typical 200uA @ 4.2V (deep sleep) Typical 26 mA @ 4.2V (SMS+UDP connection, GPS off) Typical 140 mA @ 4.2V (continuous transmit)
ENVIRONMENTAL	Temperature	-30° to +70° C (operating) -40° to +85° C (storage)
	Humidity	95%RH @ 50° C non-condensing
	Shock and Vibration	U.S. Military Standards 202G and 810F, SAE
	EMC/EMI	J1455 SAE J1113; FCC-Part 15B; Industry Canada
	Compliance	RoHS compliant
CONNECTORS	SIM Access	Internal
MOUNTING	Options	Magnet mount